1. Write these in order of size, starting with the smallest.

2. Write these in order of size, starting with the smallest.

3. Write the missing numbers.


4. Part of this number line is shaded.


Circle all the numbers below that belong in the shaded part of the number line.
1.1
1.4
$1 \frac{1}{3}$
$1 \frac{1}{5}$

1 mark
5.

Write in the missing numbers.
One is done for you.

6. $\frac{5}{11}=0.454545 \ldots$

Find a fraction that is equal in value to
0.0454545 ...


1 mark
7. Here is a number line.

Draw an arrow to show the position of $\frac{\mathbf{1 3}}{\mathbf{3 2}}$


1 mark
Here is another number line.
Draw an arrow to show the position of $\mathbf{0 . 1 1 1}$

8. Write these numbers in order of size, starting with the smallest.


Which one of these fractions is closest in value to $\frac{1}{3} ?$

$$
\begin{array}{lllll}
\frac{10}{31} & \frac{20}{61} & \frac{30}{91} & \frac{40}{121} & \frac{50}{151}
\end{array}
$$

9. Write a fraction which is greater than 0.7 and less than 0.71


1 mark

Write a decimal which is greater than $\frac{4}{7}$ and less than $\frac{5}{7}$.

10. Place these numbers in order of size, starting with the smallest.
0.19
0.9
0.091
0.109

smallest

largest

Place these fractions in order of size, starting with the smallest.
$\frac{1}{2}$

smallest
$\frac{1}{3}$
$\frac{5}{12}$


## Mark schemes

1. Numbers in order, as shown:
$0.5 \quad \frac{3}{5} \quad 0.65 \quad \frac{2}{3}$
Accept equivalent decimals, percentages or fractions.
2. Numbers in order as shown:


Accept use of equivalent fractions, decimals or percentages, eg 0.34, 0.43, 0.7, 0.75
3. 16

800
4. Two numbers circled as shown:
$1.11 .41 \frac{1}{3}$
$1 \frac{1}{5}$

Do not award the mark if additional incorrect numbers are circled. Accept: alternative unambiguous indications, eg numbers ticked, crossed or underlined.
5. All three correct
$\frac{2433}{1000}$
0.457
0.023
or
Any 2 correct
6.
$\frac{1}{22}$ OR $\frac{5}{110}$
Accept equivalent fractions.
Do not accept $\frac{0.5}{Z i}$
7. (a) Arrow or other mark as indicated.


Accept slight inaccuracies provided the intention is clear.
(b) Arrow or other mark as indicated.

8. (a) $0.11,1.001,1.011 .101$
All in correct order.
(b) $\quad 50 / 151$
9. (a) Any fraction greater than $7 / 10$ AND less than $71 / 100$, eg:

- $141 / 200$

Accept decimal fractions which fit the criteria, eg:

- 0.705
(b) Any decimal greater than 0.571428 recurring AND less than 0.714285 recurring, eg:
- 0.6

Do NOT accept non-decimal fractions, eg:

- $9 / 14 O R^{4.5} / 7$

10. (a) 0.0910 .1090 .190 .9

All four numbers in their correct places.
(b) 1/3 5/12 1/2 5/6

All four numbers in their correct places.

